

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 D21H21/14

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 597 314 A (ULMSCHNEIDER DIETER ET AL) 3 August 1971 (1971-08-03) the whole document -----	1-7
A	EP 0 280 115 A (DAIKIN IND LTD) 31 August 1988 (1988-08-31) the whole document -----	1-7
A	EP 0 763 522 A (AIR PROD & CHEM) 19 March 1997 (1997-03-19) the whole document -----	1-7
A	US 3 492 374 A (BLEU RONALD E LE ET AL) 27 January 1970 (1970-01-27) the whole document -----	1-7
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

18 November 2004

Date of mailing of the international search report

26/11/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 603 697 A (AUSIMONT SPA) 29 June 1994 (1994-06-29) the whole document -----	1-7
A	US 6 359 093 B1 (OYANAGI SHOKO ET AL) 19 March 2002 (2002-03-19) the whole document -----	1-7

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/EP2004/008088

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3597314	A	03-08-1971	AT 280764 B BE 724708 A DE 1692854 A1 FR 1593856 A GB 1241853 A SE 336086 B	27-04-1970 29-05-1969 21-10-1971 01-06-1970 04-08-1971 21-06-1971
EP 0280115	A	31-08-1988	DE 3877377 D1 DE 3877377 T2 EP 0280115 A1 JP 1006196 A JP 2582108 B2	25-02-1993 27-05-1993 31-08-1988 10-01-1989 19-02-1997
EP 0763522	A	19-03-1997	US 5672731 A EP 0763522 A1 JP 9132615 A	30-09-1997 19-03-1997 20-05-1997
US 3492374	A	27-01-1970	US 3293306 A	20-12-1966
EP 0603697	A	29-06-1994	IT 1256721 B AT 157637 T CA 2111397 A1 DE 69313600 D1 DE 69313600 T2 EP 0603697 A1 JP 3388618 B2 JP 6219862 A RU 2130957 C1 US 5395657 A	15-12-1995 15-09-1997 17-06-1994 09-10-1997 15-01-1998 29-06-1994 24-03-2003 09-08-1994 27-05-1999 07-03-1995
US 6359093	B1	19-03-2002	JP 9048748 A JP 9048749 A JP 9052867 A JP 9067415 A JP 9157311 A JP 9059214 A US 6057412 A DE 69603789 D1 DE 69603789 T2 EP 0747342 A1 JP 9052872 A KR 221558 B1 US 5872287 A	18-02-1997 18-02-1997 25-02-1997 11-03-1997 17-06-1997 04-03-1997 02-05-2000 23-09-1999 02-12-1999 11-12-1996 25-02-1997 15-09-1999 16-02-1999